574115

OTECHNOLOGY
SYSTEMS
BRANCH

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/954773

Source: OIPE

Date Processed by STIC: 10/09/01

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 3.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.
Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

http://www.uspto.gov/web/offices/pac/checker

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 09/954773

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO

1	Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2	Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3	Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4	Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5	Variable Length	Sequence(s)____contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6	PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7	Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8	Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence <210> sequence id number <400> sequence id number 000
9	✓ Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
10	Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown o is Artificial Sequence
11	Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
12	PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13	Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represen any value not specifically a nucleotide.

AMC/MH – Biotechnology Systems Branch – 08/21/2001

OIPE

RAW SEQUENCE LISTING DATE: 10/09/2001
PATENT APPLICATION: US/09/954,773 TIME: 08:45:40

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Output Set: N:\CRF3\10092001\I954773.raw

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      3 <110> APPLICANT: Lighfoot, David A.
      4       Gibson, Paul T.
      5       Merkem, Khalid
      7 <120> TITLE OF INVENTION: Soybean Sudden Death Syndrome Resistant Soybeans,
      8       Soybean Cyst Nematode Resistant Soybeans and Methods of
      9       Breeding and Identifying Resistant Plants
     11 <130> FILE REFERENCE: Sou Illinois 1268/2 Sequence Listing
C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/954,773
C--> 14 <141> CURRENT FILING DATE: 2001-09-18
     16 <150> PRIOR APPLICATION NUMBER: 60/035,335
     17 <151> PRIOR FILING DATE: 1997-01-14
     19 <160> NUMBER OF SEQ ID NOS: 20
     21 <170> SOFTWARE: PatentIn Ver. 2.0
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ERRORED SEQUENCES

Errored
Must enumerate n's

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    691 <212> TYPE: DNA
    692 <213> ORGANISM: Glycine max
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    698 gaaaaactca ttatgaaaca gatgatgtac ttttaacact ctgtcggcct ctctctctct 240
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    718 tcttgtactt ttaactttta agtcatactc cctttggact catatataag caaaagagtg 180
    719 gtcttgtatg tcggacttaa atataagcaa atctaactaa ttttgtccta tttaatactt 240
    720 tcattcctaa aacacccttc atttaattct aattctattt ccaataactc ttttttattc 300
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E--> 727 anccggaagc ataaaagtgt taagccnggg gtgcctaatg agtgagctaa ctcacattaa 720
E--> 728 ttgcgttgcg ctcactgccc gcttccnatt cgggaaactg tcctgncanc tgcattaatg 780
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741 aaacaaacat gcaccgaacc attaaagttt gacttaatat ccggggtata atgaccttaa 300
742 ttcagaaatt cacataaata actaaaagta agttgtattt tatttatgtc tggatttact 360
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E--> 744 taagaaatgg tggtcatata gacaagtttc ttttctgttt tctttaaatt gcagtcnaag 480
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746 tagaatagca agcaagtcat tataaatctg gccattggga cagcttagtt taactcccgc 600
E--> 747 cgcaaatttg ttaaaatatt naataataat atcacctaaa atcatatttg tcanttcatt 660
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759 catctagagg gcccggatct ttcggttgaa gcaaaattga agtcttttgc tcatttttat 120
760 caaattcttt aatgaaaagt taattacata aaatatttta gtagaagcaa ttttacacag 180
761 ttattattta aaaaaattac acagttattc aataacaaat tacaatatat tataaggtta 240
762 taataaatat tttaaaattc atataaaaga tgacttatta ataagttgat aatgtaaatt 300
763 ttttacacta ttaaactcat tttacgtaat cttagcgaca acatactatt tttttcatga 360
764 aatttacaaa aagctttcaa aaataaaatt attagttgta cccccaaaat ataaaattat 420
765 tagctatgtt aaaaatttgt gaatttcata aaagaaaaaa atattacagt attatatatt 480
766 aaaattaaat ctcacaataa aaacacgtaa agttatcgtt ttgaattatt agttaaagtc 540
E--> 767 cttcgtctcg tatttttctc aactctaccg acagcataaa caggttgtct ccttcntaat 600
E--> 768 aacaatcgtg gctgggaaca aaaatcgttt ttttagaaga atcngaaatc gtattgacgg 660
E--> 769 tgcgttttaa aaagactatc caataatctt cttttaataa cnctgaattt cnccaattct 720
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774 <212> TYPE: DNA
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PATENT APPLICATION: US/09/954,773 TIME: 08:45:40

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E--> 780 taaatttnaa tccatatttt antaaaaaaa aaaaggccna caaattntta aaattcctnc 180
E--> 781 nncnntttca tantnatttt tcctaggttt tttattncaa aanttaaaaa ttntattant 240
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E--> 783 cntnatccct caaggtcaac aaanttcana ncncggccna cttggccaat tcnccctata 360
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794 <212> TYPE: DNA
795 <213> ORGANISM: Glycine max
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802 ttactaatct caaataaaaa ataaggttat ttctaaaatg tccttcattg gaacttgtta 300
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804 atgaaagtat taaataggac aaaattagtt agatttgctt atatttaagt ccgacataca 420
E--> 805 agaccactct tttgcttata tatgagtcca aagggagtat gacttaaaag ttnaaagtnc 480
806 aagatgatat tacagtagct accaacataa aaagatccct cgaggtcgac gaattcgagc 540
807 tcggccgact tggccaattc ccctatagtg agtcgtatta caattcactg gccgtcgttt 600
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821 aattaaatca tcaattatta aaaaaaatca accatatcct ttattgttta aaacattata 180
822 attatgctct ttcaaccaac tctgttagtt taattgatag aagttttgta aatagatatt 240
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RAW SEQUENCE LISTING DATE: 10/09/2001
PATENT APPLICATION: US/09/954,773 TIME: 08:45:40

Input Set : A:\2seqlist.app
Output Set: N:\CRF3\10092001\I954773.raw

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847 tcttgttcca aactggaaca acactcaacc ctatctcggt ctattctttt gatttataag 480
E--> 848 ggattttgcc gatttcggcc tattggttaa aaaatgagct gatttaacaa aaatttnacg 540
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868 ccttgttcca aactggaaca acactcaacc ctatctcggt ctattctttt gatttataag 480
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E--> 908 cacnaatcnc attgtcngat ataacnaaat gctttttaac acgagtgctt cccctnacan 360
E--> 909 tgttagattt gagcccanct cccttctcaa tgatacatnc aggatgaacn ntttgacatn 420
E--> 910 nctccaccna tttggnagtc tcatgcacca ccacattccc ncagtatgtt tgaaggtcnt 480
E--> 911 tggccngttc ccttananaa atattcctcc gccnnttcag gttgantctc attccnnaaa 540
E--> 912 atatatcccc ttgtccattt ccatctncaa ttcntnctgt tngaaagaac ntttgcttcc 600
E--> 913 agcnttcttc ccaaancnat ttttnggaaa ccctctgttt tcnaagaaat tgggttcanc 660
E--> 914 tccaattctn tccattccna aggggttcct ccactttaac cccgnatnan caaccaaggg 720
E--> 915 gaattgaaaa aacgggaaag ggaaaaaaat ngggcctact tncaagggaa nggcgccccc 780
E--> 916 tcaagnaaat ttncaaagaa gnananaa                                   808
     918 <210> SEQ ID NO: 20
     919 <211> LENGTH: 787
     920 <212> TYPE: DNA
     921 <213> ORGANISM: Glycine max
     923 <400> SEQUENCE: 20
E--> 924 ngncgacgcc ngtgnatgac cactataggg cgaattggcc aagtcggccg agctcgaatt 60
     925 cgtcgacctc gagggatcta tataggct tgctaagggt agagagagga agactagaga 120
E--> 926 tttggatcna caatgccaat aacaaagagt tnaccagaat cnaacacaaa tcncattgtc 180
E--> 927 ngatataaca aaatgctttt taacacgagt gcttcacata acagtgtnag atttgagccc 240
E--> 928 aactcctttc tcaatgatac atccnggatg gaccaatttg acatgcatca ccnatttggc 300
E--> 929 agtctcatgc acaaccacat ttcccacant atgtntgang gtcattggcc ngttcactaa 360
E--> 930 ganaattatt cctccccagt tcangtngag tctcantccn naaatatagt ccctttgtcc 420
E--> 931 natttccntc tnaaatcctt cctgtggaaa gaccattgca tncagctttc tatcngaaac 480
E--> 932 aatatttgga aacccctctg tcttccaaga aatnggtgtc cnctcnattc tntcccatac 540
E--> 933 cnaagggttc atccagttta ccctgattag ancnnaaggg agtggaaana ccgggaaagg 600
E--> 934 aanaaaatng gccnacttcc aaggaaggcc cctccntnag aaaattttga gagagagaga 660
E--> 935 agagttcctt nacctttgcc tgcctcntta tattantcca gtnttatncc cncnanggtg 720
E--> 936 gttaccnaan ccttttccnc cnaatacngt ctnactaatt tggtactacc ccnccccttn 780
E--> 937 gtaccan                                                         787
```

VERIFICATION SUMMARY DATE: 10/09/2001
PATENT APPLICATION: **US/09/954,773** TIME: 08:45:41

Input Set : **A:\2seqlist.app**
Output Set: **N:\CRF3\10092001\I954773.raw**

L:13 M:270 C: Current Application Number differs, Replaced Current Application Number
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:286 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:287 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:288 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:289 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:290 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:291 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:293 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:341 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:342 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:343 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:386 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:388 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:413 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:419 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:420 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:528 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:529 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:530 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:531 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:533 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:534 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:535 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:536 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:589 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:590 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:591 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:683 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:685 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:686 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:695 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:9
M:340 Repeated in SeqNo=9
L:716 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:10
M:340 Repeated in SeqNo=10
L:737 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:11
M:340 Repeated in SeqNo=11
L:758 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:12
M:340 Repeated in SeqNo=12
L:778 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:13
M:340 Repeated in SeqNo=13
L:798 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:14
M:340 Repeated in SeqNo=14
L:828 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:15
M:340 Repeated in SeqNo=15
L:845 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:16
M:340 Repeated in SeqNo=16

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Input Set : A:\2seqlist.app
Output Set: N:\CRF3\10092001\I954773.raw

L:861 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:17
M:340 Repeated in SeqNo=17
L:882 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:18
M:340 Repeated in SeqNo=18
L:903 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:19
M:340 Repeated in SeqNo=19
L:924 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:20
M:340 Repeated in SeqNo=20